EOSDIS IV&V
Monthly Status Report

For the Period 7/1/95 to 7/31/95

(Deliverable 0203.1)

August 15, 1995

Prepared by:

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1. PROGRAMMATIC INFORMATION

1.1 IV&V Project Organization Chart

Exhibit 1-1 illustrates the current organizational structure of the EOSDIS IV&V team. For each lead position, we have identified company affiliation, geographic location, phone number, and task assignment. Also included is the number of full time equivalent engineers assigned to each technical task.

1.2 Overview of Work Being Performed

a) List of Active Task Assignments

- Task 1B: IV&V Program Management
- Task 2B: Facilities, Operations, and Program Reporting
- Task 4B: IV&V Infrastructure and Tool Development
- Task 5B: Requirements Analysis and Traceability
- Task 6:   ECS Development Analysis
- Task 9B: Key Interface Analysis
- Task 10B: EITVP and EOSDIS/EGS Certification Test Support
- Task 11: System Integration and Test (SI&T) Planning and Execution
- Task 12: EDOS IV&V
- Task 13: IV&V Special Studies

b) Key Recent Accomplishments

- **Programmatic**

  - Participated in "preliminary" Monthly Findings Meeting with ESDIS personnel to review ECS SCDO CDR readiness. Prepared for official Findings Meeting scheduled for August 2, 1995.

  - Submitted final version of white paper outlining the process that IV&V will employ to assess the ECS SCDO CDR. Began developing Fever Charts to illustrate the overall "health" of each assessment area.

  - Prepared the Greenbelt office for automated RID generation by verifying the functionality of the Issue/Discrepancy Handling System (IDHS). This system will be used to support upcoming CDR activities.

  - Negotiated and clarified task CTRs for new contract year.

Exhibit 1-1: Org Chart (Landscape)

- Submitted revised Task 5 SOW for NASA review. Revision includes the addition of a new subtask (Subtask 5.9) for CCR and document reviews.

- **Technical**

  - Under Task 4B, delivered a draft version of the ISE Element Design document and the first official revision of the ISE Element Software Requirements document. Also, continued tool development activities for the Test Management Database (TMDB), Automated Requirements Database (ARDB), Interface Analysis Database (IADB), and IV&V Homepage.

  - Under Task 5B, delivered the ECS Requirements Analysis Report and the ECS Modeling Assessment Report as scheduled. Also, supported upcoming SCDO Release A CDR by beginning CDR-related requirements analysis activities and performance modeling analysis.

  - Under Task 6, submitted Technical Analysis Memoranda (TAMs) in the following areas: IR-1/Release A design analysis of CSMS; IR-1/Release A design analysis of FOS - preliminary; IR-1/Release A design analysis of SDPS/CSMS Interoperability; and HAIS StP tool activity audit.

  - Under Task 9B, delivered ECS Test Version Interfaces Technical Analysis Report (TAR) and prepared TAM on ECS-to-Landsat-7 IRD. Also, developed and installed IADB Homepage on the Internet.

  - Under Task 10B, began developing the IR-1 Component Acceptance Master Test Plan and analyzing the requirements for IR-1 component test. Also, generated TAMs on the CSMS IR-1 Test Plan, CSMS Release A Test Plan, and Security Program Plan.

  - Under Task 11, delivered draft EGS I&T Plan and currently revising plan based on Government comments. Also, initiated activities to close Action Items from DAAC One-on-One Meetings.

  - Under Task 12, reviewed a number of EOS and EDOS CCR documents. Also, supported the activities of the EDOS TOG, Operation Engineering, and RTM working groups.

  - Under Task 13, conducted Version 0 IMS demonstrations for NASA and contractor personnel. Also, completed two month scenario testing effort on V0, executing approximately 800 scenarios. In addition, delivered a TAM on future IV&V stress testing approach.

c) New/Proposed Task Assignments

- Funding through the EDOS Project Office for the EDOS IV&V task (i.e., Task 12) ends on July 15, 1995. In order to maintain reasonable continuity, we recommend that a new task (i.e., Task 7, EDOS Development Analysis) be initiated through the SMO to begin when appropriate.

d) Open Technical Action Items from March 16 PSR

1) For dependency planning purposes, provide the ESDIS Project with a list of the items needed by the IV&V team as well as the time frame in which those items must be received in order for IV&V to accomplish its work.
   Action: *Gordon Henley, Intermetrics team*
   Status: The short-term items needed by IV&V (i.e., through CDR) have been satisfactorily addressed. After CDR, we will reassess the situation to determine whether or not additional needs exist. Item closed.

2) Provide the IV&V team with the specific definitions used for the different levels of requirements criticality (i.e., Mission Critical, Essential, Fulfillment).
   Action: *Dan DeVito, NASA*
   Status: In a discussion with Ted Ackerson, IV&V was told to consult the Level 2, Volume 0 Requirements document for information on criticality definitions. IV&V is planning to contact Dan DeVito for further clarification on these definitions.

3) Conduct an assessment on the validity of the criticality classifications currently being assigned to the ECS requirements across releases. This assessment should be completed within two weeks after HAIS makes its RTM database available.
   Action: *Debbie Izumi, Intermetrics team*
   Status: Criticality assessments are being performed on a release-specific basis as part of the Requirements Analysis task (i.e., Task 5). For each ECS release, two TAMs will be developed - one which assesses the allocation of requirements to release, and the other which provides the criticality assessment. The date for delivering the criticality assessment for IR-1 is still TBD.

1.3 Overview of Schedule Status

Exhibit 1-2 presents the latest, high level milestone chart (i.e., dated August 10, 1995) for all technical tasks assigned on the EOSDIS IV&V contract. In conjunction with this exhibit, Exhibit 1-3 lists in chronological order all deliverables/milestones associated with the contract and the status of each.

Exhibit 1-2: Milestone Chart (Landscape)

Expected Date Due	Dependency	Milestone/ Deliverable	Task #	Status*	Comments
7/14/95		**ISE Element Design - Draft**	**4B**	**C**	**Delivered on time.**
7/14/95		**ECS Requirements TAR (Final)**	**5B**	**C**	**Delivered on time.**
7/17/95		**EGS I&T Plan (Draft)**	**11**	**C**	**Delivered on time.**
7/28/95		**ECS SCDO CDR Assessment Process White Paper (Final)**	**6**	**C**	**Delivered on time.**
7/28/95		**ISE Element Requirements - Update**	**4B**	**C**	**Delivered on time.**
7/31/95		**ECS Modeling Assessment TAR**	**5B**	**C**	**Delivered on time.**
7/31/95		**ECS IR-1 and Rel A Design Evaluation Reports (Major TAMs which replace a TAR)**	**6**	**C**	**SDPS TAM - Delivered 5/31/95. SDPS INGEST TAM - Delivered 6/19/95. CSMS TAM - Delivered 7/7/95. SDPS/CSMS Interoperability TAM - Delivered 7/31/95. FOS TAM - Delivered ahead of schedule on 7/28/95.**
7/31/95	IR-1 System I&T -1 Month	IR-1 S/W Development Eval TAR	6	D	IV&V requested in writing that this TAR be postponed or eliminated due to insufficient content. Awaiting customer feedback.
8/4/95		ISE M&O Status Report	4B	IP	
8/9/95		IR-1 Component Acceptance Master Test Plan - Draft	10B	IP	
8/24/95	Rel A CDR + 1 Week	ECS Rel A CDR IV&V RIDs	6	IP	
8/31/95	IR-1 System I&T (Start)	IR-1 Final Test Plans/Procedures Eval TAR	6	O	The use of TARs as a viable reporting vehicle is currently being examined and alternatives are being considered.
9/13/95		ISE System Design Review	4B	IP	
9/15/95		EOSDIS Test Version I&T Plan/Procedures (Part 1)	11	IP	
9/29/95		EOSDIS Test Version Component Test Plan/Procedures (Part 1)	10B	O	
10/6/95		ISE M&O Status Report	4B	O	
10/15/95		Component Acceptance Master Test Plan - Baseline	10B	O	

* C = Completed, IP = In Process, O = Open, D = Delayed, CX = Canceled
<u>Note</u>: *Italics* indicates tasks that are not yet activated.

EXHIBIT 1-3: Status of Milestones/Deliverables

Expected Date Due	Dependency	Milestone/ Deliverable	Task #	Status*	Comments
10/16/95	Rel A CDR + 2 Months	Release A Final Design Evaluation TAR	6	O	
10/16/95	Rel A CDR + 2 Months	Release A IRVVP (Final)	6	O	
10/16/95		EOSDIS Version 1 Interface TAR	9B	O	
10/16/95		Updated IADB and Data Dictionary for Test Version and Version 1 Supporting Documents	9B	O	
11/30/95		ISE Element Users Guide - Draft	4B	O	
11/30/95	Rel B IDR + 1 Week	ECS Rel B IDR IV&V RIDs	6	O	
12/1/95		EOSDIS Test Version I&T Plan/Procedures (Part 2)	11	O	
12/8/95		ISE M&O Status Report	4B	O	
12/8/95	Rel B IDR + 2 Weeks	Release B IRVVP (Preliminary)	6	O	
12/15/95		ISE Element Software Design - Update	4B	O	
12/15/95		EOSDIS Test Version Component Test Plan/Procedures (Part 2)	10B	O	
12/29/95	IR-1 System I&T (End)	IR-1 Final Test Results Evaluation TAR	6	O	
1/23/96	Rel B IDR + 2 Months	Release B Preliminary Design Evaluation TAR	6	O	
2/1/96		EGS Mission Certification Master Test Plan - Draft	10B	O	
2/7/96		ISE M&O Status Report	4B	O	
2/16/96		ISE Element Software Code	4B	O	
2/16/96		ISE Element Version Description	4B	O	
2/16/96		ISE Release 1 Demonstration (ISER1)	4B	O	
2/29/96		ECS Release A Rqmts Analysis Report	5B	O	
3/1/96		EGS Version 1 I&T Plan/Procedures (Part 1)	11	O	
3/31/96		V0 IMS Client System Performance (Phase III) TAR	13	O	
4/5/96		ISE M&O Status Report	4B	O	
5/1/96		ISE Evaluation and Planning TAM	4B	O	
5/1/96		EGS Version 1 Mission Certification Test Plan/Procedures (Part 1)	10B	O	

* C = Completed, IP = In Process, O = Open, D = Delayed, CX = Canceled
<u>Note</u>: *Italics* indicates tasks that are not yet activated.

EXHIBIT 1-3: Status of Milestones/Deliverables

Expected Date Due	Dependency	Milestone/ Deliverable	Task #	Status*	Comments
5/15/96		*ECS Release A IV&V Test Plan*	*8*	*O*	
5/31/96		ISE Element Users Guide - Update	4B	O	
6/7/96		ISE M&O Status Report	4B	O	
6/14/96		ISE Software Code - Update	4B	O	
6/14/96		ISE Element Version Description - Update	4B	O	
6/14/96		ISE Release 2 Demonstration (ISER2)	4B	O	
6/28/96		ECS Release B Rqmts Analysis Report	5B	O	
6/28/96	Rel A TRR - 3 Months	Release A Preliminary S/W Development Evaluation TAR	6	O	
8/1/96		EGS Mission Certification Master Test Plan - Baseline	10B	O	
8/15/96		*ECS Release A Test Scenario Operations*	*8*	*O*	
9/1/96		EGS Version 1 Mission Certification Test Plan/Procedures (Part 2)	10B	O	
9/1/96		EGS Version 1 I&T Plan/Procedures (Part 2)	11	O	
9/15/96		ISE Element Users Guide - Update	4B	O	
9/16/96		*ECS Release A IV&V Test Procedures - Initial*	*8*	*O*	
9/30/96		ISE Software Code - Update	4B	O	
9/30/96		ISE Element Version Description - Update	4B	O	
11/15/96		*ECS Release A IV&V Test Procedures - Update*	*8*	*O*	
11/17/96		ECS IR-1 Requirements Analysis Report	5B	O	
1/1/97	Version 1-3 Months	EOSDIS V1 Rqmts Analysis Rpt (Prelim)	5B	O	
2/17/97		*ECS Release A IV&V Test Analysis Report*	*8*	*O*	
	Test Completion + 7 days	EOSDIS Test Version Component Test Flash Report	10B	O	
	Test Completion + 45 days	EOSDIS Test Version Component Test Report	10B	O	

* C = Completed, IP = In Process, O = Open, D = Delayed, CX = Canceled
<u>Note</u>: *Italics* indicates tasks that are not yet activated.

EXHIBIT 1-3: Status of Milestones/Deliverables

Expected Date Due	Dependency	Milestone/ Deliverable	Task #	Status*	Comments
	Test Completion + 7 days	EGS I&T Flash Summary Test Report	11	O	
	Test Completion + 45 days	EGS I&T Final Test Report	11	O	
	Monthly during version post-delivery integration	Summary of I&T Progress and Events	11	O	
	As scheduled by ICWG	EOSDIS IRD/ICD Comment TAM	9B	O	
	2 weeks after each review	EOSDIS Component SRR/PDR/CDR RIDs	9B	O	
	TBD	EOSDIS Version 2 Interface TAR	9B	O	

* C = Completed, IP = In Process, O = Open, D = Delayed, CX = Canceled

<u>Note</u>: *Italics* indicates tasks that are not yet activated.

EXHIBIT 1-3: Status of Milestones/Deliverables

1.4 Performance Assurance Activities/Issues

- **Performance Assurance Activities**

  - As part of an ongoing effort to improve our Novell network knowledge and expertise, IV&V System Administrators attended the NetWare User Conference on July 5 and 6, 1995, to participate in a two-day tutorial which prepares attendees for Certified Network Administrator (CNA) and Certified Network Engineer (CNE) accreditation.

  - A series of Version 0 IMS demonstrations were given on July 25 and 26 at the IV&V Greenbelt office. The purpose of these demonstrations were to familiarize the members of the IV&V team with the V0 system from a science user's perspective. NASA personnel also attended.

  - IV&V personnel plan to attend a two-day training session on Hierarchical Data Format (HDF), offered at HAIS during the August/September timeframe. This training will give insight into how data is stored and distributed at the DAACs.

  - In order to remain current on network technology, members of the IV&V team will attend a 3-day on-site seminar on Data Communications and Networking

offered by the Information Systems Institute (ISI). This training is scheduled for September 18 through 30, 1995.

- **Performance Assurance Issues**

  - The time cycle needed to produce a Technical Analysis Report (TAR) is generally too long to be responsive to program needs. At times, IV&V TARs have commented on baselined documents that no longer reflect the current state of the system. To correct this problem, we plan to make greater use of Technical Analysis Memoranda (TAMs), thereby shortening the period between document reviews and providing more quick-look analyses. We plan to discuss this strategy with ESDIS management, so that we can have task statements modified to remove TAR deliverables as needed in favor of more responsive reporting mechanisms.

1.5   Major Short Term Activities Planned

- **Program-wide Activities**

  - Support the ECS SCDO Release A CDR.

  - Participate in next Monthly Findings Meeting with ESDIS management scheduled for August 2, 1995.

  - Work with Code 505 and Contracting Officer to finalize the budget for IV&V tasks for the new contract year.

  - Address the issue of making the IV&V Homepage consistent in appearance and function with the SMO Homepages.

  - Address network support and connectivity issues, including the justification for a T1 line.

- **Task-specific Activities**

  - For Task 4B, deliver first bi-monthly ISE Maintenance and Operations (M&O) Status Report. Also, provide users with reorientation of the Issue/Discrepancy Handling System (IDHS) to support upcoming CDR RID submission process.

  - For Task 5B, perform requirements and modeling analysis to support IV&V CDR evaluation. Also, analyze the proposed volume and processing requirements changes to Appendix C of the ECS F&PRs.

- For Task 6, attend SCDO Release A CDR presentations; review CDR documentation; and generate RIDs, Fever Charts, and TAMs as appropriate.

- For Task 9B, assess CDR interface documents and analyze ECS interface designs. Also, prepare TAMs for ECS-SCF ICD, ECS-NOAA ICD, and ECS-Version 0 ICD.

- For Task 10B, deliver draft of IR-1 Component Acceptance Master Test Plan, and continue detailed planning for IR-1 component test activities.

- For Task 11, continue to develop SI&T Plan appendices and deliver final EGS I&T Plan on August 10, 1995. Also, begin work on EOSDIS Test Version I&T Plan/Procedures (Part 1).

- For Task 12, no activities planned. Task closed as of July 15, 1995.

- For Task 13, develop X-Runner test scripts and conduct off-hours tests of V0 system using X-Runner tool. Also, deliver TAM on preliminary V0 performance results.

1.6   Key Long Range Plans/Schedules

The IV&V team will support the activities and milestones identified in Exhibit 1-2. Emphasis will be placed on those activities that are on the critical path to support the on-time launch of the spacecraft. Such activities include supporting System Integration, performing Interface and Integration Testing, and conducting System Certification.

In addition, the IV&V team realizes the critical importance of a successful ECS Interim Release 1 (IR-1) and Release A to the future of the EOSDIS program. We will devote significant effort under Task 6 (i.e., ECS Development Analysis) to ensure that IR-1 and Release A are perceived as a success within both the ESDIS and user communities. In concert with these goals, the IV&V team has conducted a focused effort to suggest the appropriate criteria for evaluating the success of the upcoming ECS CDR.

As the EOSDIS program evolves, the IV&V team will become increasingly involved in System Integration and Test (SI&T) activities. Initial activities will involve developing the detailed technical approach and procedures for the component test of IR-1/Test Version. We will also be looking for ways to structure the component test and version certification of Release A.

2. TECHNICAL INFORMATION

2.1 Task # 4B: IV&V Infrastructure and Tool Development

a) Task Accomplishments

- Delivered the first official revision of the ISE Element Software Requirements document on July 28, 1995.

- Delivered a draft version of the ISE Element Design document on July 14, 1995. This document included design information on the Automated Requirements Database (ARDB), Interface Analysis Database (IADB), and EOSDIS IV&V Homepage. The first official revision will include Test Management Database (TMDB) design information.

- Provided inputs and recommendations for CDR risk assessment activities.

- Continued tool development activities associated with the TMDB, ARDB, IADB, and IV&V Homepage. Detailed information regarding these activities is provided in the bi-monthly ISE Maintenance and Operations Status Report.

- Provided a detailed TMDB development schedule for Task 11.

- Assisted in publishing the IADB Homepage. Provided instruction in using UNIX and in writing Bourne Shell scripts.

- Reviewed and commented on GFE procurement plans and budget for FY96.

b) Issues/Concerns

- We believe that the 56KB line connecting our Greenbelt office to GSFC will not be sufficient to support the data access / data transfer needs of the IV&V team in the long term. We are in the process of collecting data on this issue and plan to provide a written justification for a T1 capability.

c) Subcontractor Performance

- CTA performance during this reporting period was very good. They were directly responsible for the development gains realized in the IADB tool.

- EWA performance during this reporting period was very good. They supported system administration activities for the Fairmont facility as well as on-going ARDB and TMDB analysis/prototyping activities.

d) Planned Activities

- Deliver the first of the bi-monthly ISE Maintenance and Operations (M&O) Status Reports.

- Provide end-users with a reorientation of the Issue/Discrepancy Handling System (IDHS) in support of upcoming CDR Review Item Discrepancy (RID) submission.

- Support CDR activities as requested.

- Continue ARDB and TMDB prototyping activities, as well as IADB development and maintenance.

- Reconfigure Lotus Notes client software for all Fairmont users. Also, reinstall Lotus Notes server and client software in Greenbelt to coincide with Fairmont configuration.

- Perform system administration duties for hardware and COTS software as required.

- Support program meetings and briefings as required.

2.2   Task # 5B: Requirements Analysis and Traceability

a) Task Accomplishments

- Supported upcoming SCDO Release A CDR by developing draft description of CDR assessment activities related to requirements and modeling analysis. Began requirements analysis activities and continued performance modeling analysis to support CDR.

- Delivered ECS Requirements Analysis Report (TAR) on July 14, 1995, as scheduled.

- Delivered ECS Modeling Assessment Report on July 31, 1995, as scheduled.

- At ESDIS Project direction, generated reports comparing the July 18 update of the ECS RTM database for SCDO Release A with the previous mid-June version of the database.

- Commented on the following CCRs and documents: ECS CSMS Integration and Test Plan, Volume 1: IR-1 (Final - Dated June 1995), EDOS Functional and Performance Specification (Replan Draft, 7/14/95), and CSMS Integration and Test Plan, Volume 2: Release A.

- Attended a number of project-related meetings including the ECS Release B Requirements Workshop at HAIS, ECS and EDOS modeling meetings, and the Data Server Hardware Walkthrough at HAIS.

b) Issues/Concerns

- We are still experiencing resistance from HAIS to give IV&V access to HAIS cost modeling details.

c) Subcontractor Performance

- Subcontractor performance has been good.

d) Planned Activities

- Analyze the proposed volume and processing requirements changes to Appendix C of the ECS F&PRs requested by Chris Daly. This activity is pending receipt of an updated (i.e., errors fixed) version of the CDR Technical Baseline from HAIS.

- Determine, through discussions with ESDIS, the rationale describing requirements criticality ratings. This information is needed to support IV&V requirements analyses.

- Continue to support HAIS and EDOS modeling meetings.

- Perform requirements and modeling analysis to support IV&V CDR evaluation.

- Continue ad hoc review of CCRs and documents, as requested by the ESDIS Project.

- Support program meetings and briefings as required.

2.3   Task # 6: ECS Development Analysis

a) Task Accomplishments

- Completed IR-1 and Release A design analysis (CSMS Overall); submitted Technical Analysis Memorandum (TAM) on July 7, 1995.

- Performed HAIS StP tool activity audit; submitted TAM on July 10, 1995.

- Completed IR-1 and Release A design analysis (FOS Preliminary); submitted TAM on July 28, 1995.

- Completed IR-1 and Release A design analysis (SDPS/CSMS Interoperability); submitted TAM on July 31, 1995.

- Submitted final white paper on IV&V ECS SCDO CDR Assessment Process July 28, 1995.

- Attended ECS monthly status review as well as ECS CDR design walkthroughs.

b) Issues/Concerns

- None.

c) Subcontractor Performance

- Subcontractor performance has been excellent.

d) Planned Activities

- Attend ECS CDR design walkthroughs by HAIS.

- Attend SCDO Release A CDR presentations.

- Review CDR documentation and generate RIDs, Fever Charts, and TAMs as appropriate.

- Support other program meetings and briefings as required.

2.4   Task # 9B: Key Interface Analysis

a) Task Accomplishments

- Completed and delivered the ECS Test Version Interfaces Technical Analysis Report (TAR).

- Prepared a TAM on the ECS-to-Landsat-7 IRD.

- Prepared a CDR plan for IRD and ICD assessment, and tasked several team members with learning Object Modeling Technique (OMT) so that they can analyze CDR interface objects.

- Compared the ESDIS CCB-approved versions of the ECS-NISS and ECS-MITI ASTER IRDs with previous versions as well as with the June 15 version of RTM. Updated the Interface Analysis Database (IADB) to reflect baselined versions of the documents.

- Developed and installed an IADB Homepage on the WWW which provides access to four IADB reports. Also, developed a secure version of the IADB for downloading across the Internet.

- Began analyzing the ECS-to-TRMM ICD.

b) Issues/Concerns

- The HAIS Level 3.5 requirements are not up-to-date. Although they contain the IRD requirements, they do not reflect the latest changes that have been made to the IRDs. Without the most current data, our ability to develop sound test plans could be compromised.

c) Subcontractor Performance

- CTA is the task lead for this effort. Their performance has been good.

d) Planned Activities

- Assess CDR interface documents, analyze ECS interface designs, and support preparation of CDR briefing charts.

- Prepare TAMs for ECS-SCF ICD, ECS-NOAA ICD, and ECS-Version 0 ICD.

- Update the IADB Homepage to be consistent with SMO homepages. Provide additional features for selecting and retrieving IADB report data.

- Participate in ICWG, NT, and SIT meetings.

- Support other program meetings and briefings as required.

2.5   Task # 10B: EITVP and EOSDIS/EGS Certification Test Support

a) **Task Accomplishments**

- Began developing the IR-1 Component Acceptance Master Test Plan.

- Continued to support the ETS RID evaluation process, developing answers to customer ETS-related questions and ETS requirements baseline.

- Began detailed requirements analysis into test categories for IR-1 component test.

- Generated three Technical Analysis Memoranda (TAMs) during document reviews of CSMS IR-1 Test Plan, CSMS Release A Test Plan, and Security Program Plan.

b) **Issues/Concerns**

- None.

c) **Subcontractor Performance**

- Subcontractor performance has been good; however, continued emphasis should be placed on staff planning and time scheduling.

d) **Planned Activities**

- Continue detailed planning for IR-1 component test activities.

- Deliver draft of IR-1 Component Acceptance Master Test Plan on August 9, 1995.

- Close out SDR RIDs and remaining issues.

- Gain visibility into CDR and related activities without impacting task work flow.

- Begin detailed IR-1 Component Test Plan - Part 1, due on September 29, 1995.

- Support program briefings as required.

2.6 Task # 11: System Integration and Test (SI&T) Planning and Execution

a) **Task Accomplishments**

- Delivered draft EGS I&T Plan on July 17, 1995. Currently revising the plan based on Government comments; also, adding parallel revisions into the Component Test write-ups.

- Continued developing EGS functional thread and interface test architecture for Release A.

- Attended Level 4 Requirements Workshop at HAIS on July 25-27.

- Initiated activities to close Action Items from DAAC One-on-One Meetings. Continuing discussions with Code 505 personnel on disposition status.

b) Issues/Concerns

- Task staffing needs to be increased once funding is resolved.

c) Subcontractor Performance

- Subcontractor performance has been good; however, continued emphasis should be placed on staff planning and time scheduling.

d) Planned Activities

- Continue to develop SI&T Plan appendices showing detailed system test coordination and dependency. The intent is to produce a more comprehensive initial plan focusing on Release A.

- Deliver final EGS I&T Plan on August 10, 1995.

- Identify tool needs for Task 11 I&T activities.

- Begin work on EOSDIS Test Version I&T Plan/Procedures (Part 1). By mutual agreement, the due date for this deliverable has been moved to September 15, 1995.

- Support program briefings as required.

2.7   Task # 12: EDOS IV&V

a) Task Accomplishments

- Reviewed the following EOS and EDOS CCR documents: ICD-EDOS and ASTER GDS; System Interface Control Plan for ESDIS Project; ESDIS CCR #505-01-41-066/EDOS-95-0175; and ESDIS CM Plan.

- Supported the activities of the EDOS TOG working group, the Operation Engineering working group, and the RTM working group.

- Supported EDOS PCMB meetings.

b) Issues/Concerns

- This EDOS IV&V task will close before we have an opportunity to evaluate the Red Team Replan Requirements.

c) Subcontractor Performance

- No inputs from subcontractors for the month of July.

d) Planned Activities

- None. Task closed as of July 15, 1995.

2.8   Task # 13: IV&V Special Studies

a) Task Accomplishments

- Conducted Version 0 IMS demonstrations for NASA, IV&V, and EDOS personnel.

- Completed two month scenario testing effort on Version 0. Approximately 800 scenarios were executed. Began preparing a TAM on Version 0 performance results obtained during the two month test interval.

- Developed two Pascal programs to parse incoming system monitoring data; one to handle system activity reporter data (sar), and one to handle input/output statistics (iostat) as well as virtual memory statistics (vmstat).

- Collected all timestamp data for the month of June. Data was categorized and placed into electronic directories based on the site being measured and the type of data being collected. This data was then transposed into Excel spreadsheets for later use by other Task 13 team members.

- Prepared and delivered a TAM on future IV&V stress testing approach.

b) Issues/Concerns

- None.

c) Subcontractor Performance

- CTA is the lead for this new task. Their progress to date has been very good.

d) Planned Activities

- Develop X-Runner test scripts and conduct off-hours tests of V0 system using X-Runner tool.

- Continue collecting system monitoring data at the DAACs.

- Complete and deliver TAM on preliminary Version 0 performance results.

- Execute additional V0 test scenarios.

- Support program meetings/briefings as required.

3. FINANCIAL/CONTRACTUAL INFORMATION

Section 3 of This Report

Has Been Removed

Due to Proprietary Content.